

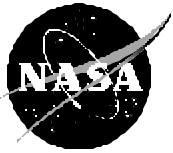
# **STS-102 Flight Readiness Review**

---

**Space Station and Payloads Processing  
ISS-08-5A.1/STS-102**

**Multi-Purpose Logistics Module “Leonardo”  
Integrated Cargo Carrier  
GAS-783/WSVFM/SEM-09**

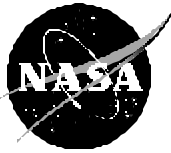
**Glenn Chin/UB-1  
5A.1 Mission Manager  
February 27, 2001**



# CONTENTS

---

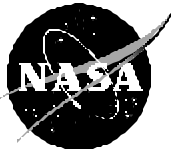
- **Processing Overview**
  - Acronyms
  - Processing Milestones
  - Orbiter Middeck Requirements
- **Engineering Status**
- **Readiness Statement**



# ACRONYMS

---

• APCU	Assembly Power Converter Unit
• CEIT	Crew Equipment Interface Test
• DCSU	DC Switching Unit
• EAS	Early Ammonia Servicer
• HRF	Human Research Facility
• ICC	Integrated Cargo Carrier
• KYA	Keel Yoke Assembly
• LON	Launch On Need
• LPRR	Launch Package Readiness Review
• PCG-EGN	Protein Crystal Growth-Enhanced Gaseous Nitrogen
• PDV	Post Delivery Verification
• PFCS	Pump Flow Control System
• SEM	Space Experiment Module
• UCP	Unpressurized Cargo Pallet
• WSVFM	Wide Band Shuttle Vibration Force Measurement



# PROCESSING MILESTONES

---

## SSPF

• MPLM FM-1 Arrival KSC	31 Jul. '98 (A)
• PDV Test	24 Sep. '98 (A)
• Pre-Rack Installation Checkout	06 Oct. '00 (A)
• Rack Installation	23 Dec. '00 (A)
• MPLM Off-Gas Test	05 Jan. '01 (A)
• UCP Arrival SSPF	19 Jan. '01 (A)
• MPLM Move to LPIS	22 Jan. '01 (A)
• CEIT	29 Jan. '01 (A)
• MPLM CITE IVT/ETE	30 Jan. '01 (A)
• Last Stowage Opportunity	15 Feb. '01 (A)
• EAS removed from UCP*	16 Feb. '01 (A)
• Hatch Closure for Flight	18 Feb. '01 (A)
• PFCS NH3 Ops	19 Feb. '01 (A)
• Element Leak Test	20 Feb. '01 (A)
• LP Transfer to Canister	21 Feb. '01 (A)

---

\*ISSP final decision made on 12 Feb. '01 to remove EAS from UCP



# PROCESSING MILESTONES

---

## OPF

- GAS-783/WSVFM/SEM-09 Installed 19 Dec.'00 (A)
- APCU IVT 08 Jan. '01 (A)
- KYA Installed 10 Jan. '01 (A)

## CRF

- Payload Canister Rotation 22 Feb. '01

## PAD B

- LP to Pad 23 Feb. '01
- LP Transfer to Orbiter\* 26 Feb. '01
- Orbiter to Payload Electrical Mates 28 Feb. '01
- Orbiter to Payload IVT/ETE 01-02 Mar. '01
- Payload Closeout/SEM-09 Cover Removal/  
PLBD Closed for Flight 05 Mar. '01
- Launch 08 Mar. '01

\* LON (DCSU) Call Up



## ORBITER MIDDECK

---

Experiment	Installation	IVT	Launch Delay Requirement	Destow
HRF H-REFLEX KIT	STD STOW	NO	NONE	NONE*
IMAX 3D FILM	</= 7 DAYS	NO	15 DAYS	RUNWAY
PCG-EGN DEWAR				RUNWAY**
EDUCATION/SEED GROWTH KIT				RUNWAY**

\*LAUNCH ONLY ITEM

\*\*RETURN ONLY ITEM



# Engineering Status

---

## Technical Requirements

- All technical requirements for ISS-08-5A.1/STS-102 have been baselined except RCN MU15419 – MPLM Ferry Flight Purge
  - No constraint to launch

## Technical Procedures

- All procedures have either been released or are scheduled to be released and will meet the applicable “on the shelf” requirements
  - All remaining open work is scheduled

## Problem Reports

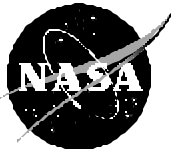
- No “Lost and Found” PRs
- All remaining PRs have been worked and are closed or are being closed

## Launch Commit Criteria

- None

## CoFR Exceptions

- None
-



# READINESS STATEMENT

---

**Pending completion of the identified standard open work, planned forward work, and resolution of the identified CoFR Exceptions, ISS/Payloads Processing Directorate is ready to proceed with launch of ISS-08-5A.1/STS-102.**